

Assignment -2
Python Programming

Assignment Date	21 September 2022
Student Name	Aathish.D
Student Roll Number	714019106002
Maximum Marks	2 Marks

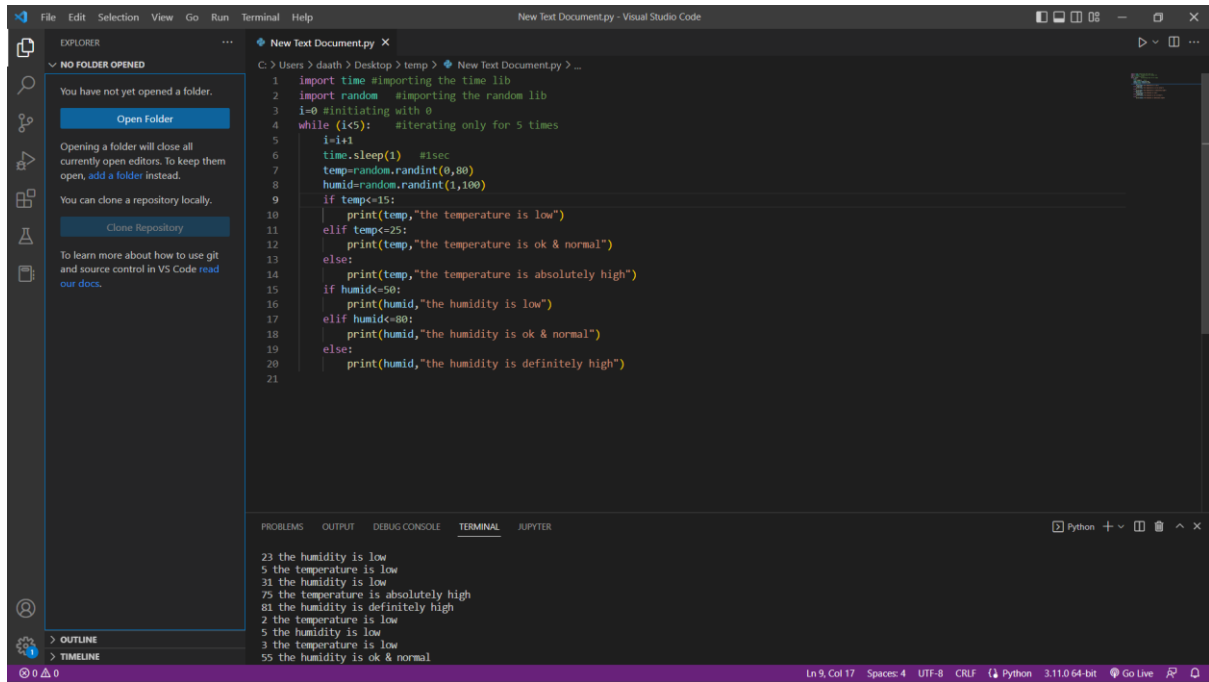
Question-1:

Build a python code. Assume you get temperature and humidity values (generated with random functions to a variable) and write a condition to continuously detect alarm in case of high temperature.

Code:

```
import time #importing the time lib
import random #importing the random lib
i=0 #initiating with 0
while (i<5): #iterating only for 5 times
    i=i+1
    time.sleep(1) #1sec
    temp=random.randint(0,80)
    humid=random.randint(1,100)
    if temp<=15:
        print(temp,"the temperature is low")
    elif temp<=25:
        print(temp,"the temperature is ok & normal")
    else:
        print(temp,"the temperature is absolutely high")
    if humid<=50:
        print(humid,"the humidity is low")
    elif humid<=80:
        print(humid,"the humidity is ok & normal")
    else:
        print(humid,"the humidity is definitely high")
```

Output:



The screenshot shows the Visual Studio Code interface with a Python script open in the editor. The script is a simple program that generates random temperature and humidity values and prints them out. The terminal at the bottom shows the output of the script, which is a series of lines indicating the current temperature and humidity values.

```
C:\Users> dault > Desktop > temp > New Text Document.py > ...
1 import time #importing the time lib
2 import random #importing the random lib
3 i=0 #initiating with 0
4 while (i<5): #iterating only for 5 times
5     i=i+1
6     time.sleep(1) #1sec
7     temp=random.randint(0,80)
8     humid=random.randint(1,100)
9     if temp<15:
10         print(temp,"the temperature is low")
11     elif temp<25:
12         print(temp,"the temperature is ok & normal")
13     else:
14         print(temp,"the temperature is absolutely high")
15         if humid<50:
16             print(humid,"the humidity is low")
17         elif humid<80:
18             print(humid,"the humidity is ok & normal")
19         else:
20             print(humid,"the humidity is definitely high")
21
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
23 the humidity is low
5 the temperature is low
31 the humidity is low
75 the temperature is absolutely high
81 the humidity is definitely high
2 the temperature is low
5 the humidity is low
3 the temperature is low
55 the humidity is ok & normal
```

Ln 9, Col 17 Spaces: 4 UTF-8 CRLF Python 3.11.0 64-bit Go Live